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This listing of claims will replace all prior versions of claims in the application.

Claims 1-25. (cancelled).

- Claim 26. (new) A photoresist composition that comprises:
- (a) a photoacid generator compound; and
- (b) a polymer that comprises (i) a hydroxyadamantyl moiety, (ii) a photoacid-labile moiety, and (iii) at least two distinct polymerized norobornene repeat units.
- Claim 27. (new) The photoresist composition of claim 26 wherein the polymer comprises polymerized acrylate groups that comprise a photoacid-labile moiety.
- Claim 28. (new) The photoresist composition of claim 26 wherein the polymer comprises a nitrile moiety.
- Claim 29. (new) The photoresist composition of claim 26 wherein the polymer comprises an anhydride moiety.
- Claim 30. (new) The photoresist composition of claim 26 wherein the polymer comprises a lactone moiety.
- Claim 31. (new) The photoresist composition of claim 26 wherein the polymer comprises at least two distinct repeat units that each has a photoacid-labile group.
- Claim 32. (new) The photoresist composition of claim 26 wherein the polymer is a terpolymer.

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- Claim 33. (new) The photoresist composition of claim 26 wherein the polymer is a tetrapolymer.
- Claim 34. (new) The photoresist composition of claim 26 wherein the polymer is substantially free of aromatic groups.
- Claim 35. (new) The photoresist composition of claim 26 wherein the polymer is completely free of aromatic groups.
- Claim 36. (new) A microelectronic wafer substrate having coated thereon a layer of the photoresist composition of claim 26.
 - Claim 37. (new) A photoresist composition that comprises:
 - (a) a photoacid generator compound; and
- (b) a polymer that comprises a hydroxyadamantyl moiety and at least two distinct repeat units that each has a photoacid-labile group.
- Claim 38. (new) The photoresist composition of claim 37 wherein the polymer comprises a lactone group.
- Claim 39. (new) The photoresist composition of claim 37 wherein the polymer comprises polymerized acrylate groups that comprise one or more photoacid-labile moieties.
- Claim 40. (new) The photoresist composition of claim 37 wherein the polymer comprises one or more nitrile moieties.

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- Claim 41. (new) The photoresist composition of claim 37 wherein the polymer comprises one or more polymerized norbornene groups.
- Claim 42. (new) The photoresist composition of claim 37 wherein the polymer is a terpolymer.
- Claim 43. (new) The photoresist composition of claim 37 wherein the polymer is a tetrapolymer.
- Claim 44. (new) The photoresist composition of claim 37 wherein the polymer is substantially free of aromatic groups.
- Claim 45. (new) The photoresist composition of claim 37 wherein the polymer is completely free of aromatic groups.
- Claim 46. (new) A microelectronic wafer substrate having coated thereon a layer of the photoresist composition of claim 37.